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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/058,604	01/28/2002	Richard L. Robertson	00CR071/KE	4002
7590 09/10/2004		EXAMINER		
Kyle Eppele			YENKE, BRIAN P	
Rockwell Collins, Inc.			ART UNIT	PAPER NUMBER
M/S 124-323 400 Collins Rd. NE			2614	TALER NOMBER
Cedar Rapids, IA 52498			2014	
Count Rupius,	111 52 190		DATE MAILED: 09/10/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/058,604	ROBERTSON ET AL.			
Office Action Summary	Examiner	Art Unit			
	BRIAN P. YENKE	2614			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on	_ <i>.</i>				
	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-18</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>28 January 2002</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)∐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 28 Jan 02	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)			
S Patent and Trademork Office.					

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DETAILED ACTION

Drawings

1. The drawings are objected to because the elements in the figures do not include a description/text legend describing the element. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA) in view of Barness, III, US 2002/0171927.

In considering claims 1-18,

- a) the claimed a hollow case including a window opening...is met by AAPA, page 2.
- b) the claimed a screen...is met by AAPA, page 2.
- c) the claimed at least one mirror internally mounted...is met by AAPA, page 2.
- d) the claimed a window mounted...is met by AAPA, page 2.
- c) the claimed an optical engine mounted to said case is met by AAPA, pag 2.

However, AAPA does not disclose how the optical engine is mounted with respect to the window and directing the light to at least one mirror.

The shifting of location of parts within a system, is considered to be an obvious modification to one of ordinary skill in the art, *In re Japikse, 181 F.2d 1019, 1023, 86 USPQ 70, 73, (CCPA 1950)*, unless the shifting of the parts derives some unexpected results. Therefore, the claimed mounting of the engine and the directing of the light both provide a display, and therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to mount the optical engine and direct the light to the mirror, based upon the designers needs (i.e. size of system, space etc).

AAPA also does not disclose a display which includes the claimed diaphragm, gas filling, and vent which is used to equalize the pressure in a closed system in an aircraft.

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However, the placement of a display system on an aircraft, can be used as either a pressurized system or non-pressurized system.

The examiner incorporates, Henderson et al., US 5,574,497 which discloses a multi-camera closed circuit TV system for an aircraft in which the camera are enclosed (sealed housing) in a camera module unit 32 (Fig 5, 7). Henderson also discloses that the system can be used in a pressurize or non-pressurized portions of the aircraft (col 3, line 18-37).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify AAPA which discloses a projection display utilized in an aircraft cockpit, with Henderson by providing a display which is sealed which protects the components from moisture and may be placed in a pressure or non-pressurized area of the aircraft.

Although, neither AAPA nor Henderson disclose the method/parts for pressurizing a module, the use of a port(s), diaphragm/flexible, dust boot, seal, gas (nitrogen, inert) and vent are conventional methods/parts used in an aircraft embodiment in order to equalize the pressure in a sealed enclosure/system.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify AAPA and Henderson which disclose a sealed projection display utilized in an aircraft cockpit, by providing a system which equalizes the pressure within the system in order to accommodate the variety of pressures/altitudes in an aircraft embodiment.

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Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure—see newly cited references on attached form PTO-892.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (703) 305-9871. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, John W. Miller, can be reached at (703)305-4795.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist). Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703)305-HELP.

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(TDD) 703-305-7785

An automated message system is available 7 days a week, 24 hours a day providing informational responses to frequently asked questions and the ability to order certain documents. Customer service representatives are available to answer questions, send materials or connect customers with other offices of the USPTO from 8:30 a.m. - 8:00p.m. EST/EDT, Monday-Friday excluding federal holidays.

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General information brochures can also be obtained in person from the Patent Search Room located in Crystal Plaza 3, Room 1A03, 2021 South Clark Place, Arlington, VA 22202.

The Patent Electronic Business Center (EBC) allows USPTO customers to retrieve data, check the status of pending actions, and submit information and

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applications. The tools currently available in the Patent EBC are Patent Application Information Retrieval (PAIR) and the Electronic Filing System (EFS). PAIR (http://pair.uspto.gov) provides customers direct secure access to their own patent application status information, as well as to general patent information publicly available. EFS allows customers to electronically file patent application documents securely via the Internet. EFS is a system for submitting new utility patent applications and pre-grant publication submissions in electronic publication-ready form. EFS includes software to help customers prepare submissions in extensible Markup Language (XML) format and to assemble the various parts of the application as an electronic submission package. EFS also allows the submission of Computer Readable Format (CRF) sequence listings for pending biotechnology patent applications, which were filed in paper form.

BRIAN P. YËNKE Patent Examiner

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05 September 2004